

Baseline and Savings

What is my building's baseline?

(for that matter, what is a baseline?)

- Baseline is the starting point from which measurement of reductions will be made. For this contest, baseline for each month will be an average of actual usage for the same months in FY02.
- Each building has an electric meter, which records monthly use & peak use
- Usage is normalized by the use per square foot (kWh/SF)

What information will be supplied?

- Electric Use, in kWh and kWh/SF, for your building
- Pertinent information to help you demonstrate to building occupants how a little effort can save a lot of money
- Estimated Cost Savings

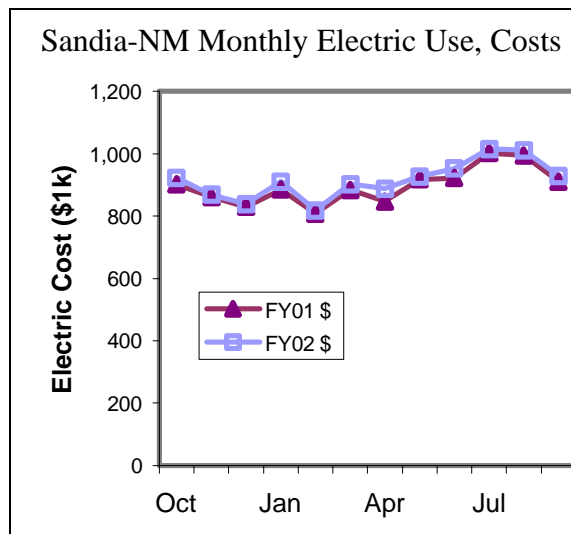
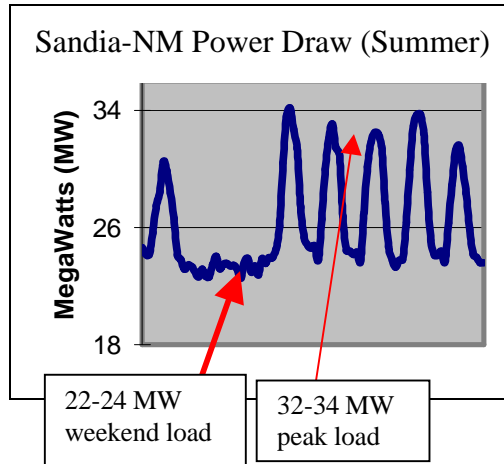
Updates, Information

- Energy Management Website (*search TechWeb for "energy management"*)
- Energy Nag Rags
- Quarterly Reports on buildings' electricity use in Sandia Lab News
- Porcelain press

"I think helping Uncle Sam avoid debt by not wasting energy is at least as patriotic as financing debt by buying US Savings Bonds..."

-Mark Boslough, 9212

SNL Electric Use, Cost



Need Advice?

Malynda Aragon, 844-1288

Kristin Klossner, 844-9204

Ralph Wrons, 844-0601

Al Zelicoff, 844-8020



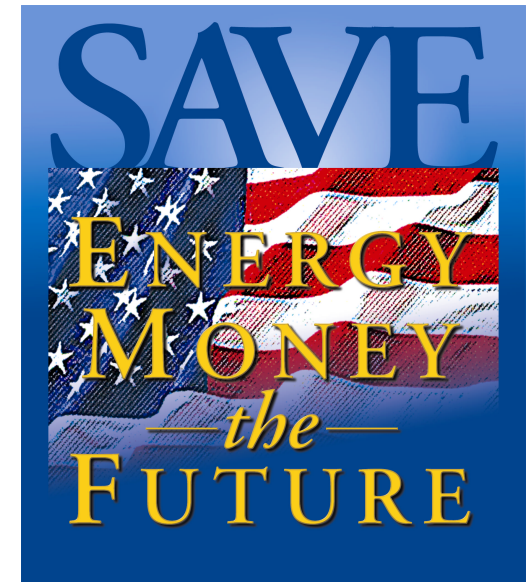
Sandia National Laboratories

You've Got the Power

2003 Energy Reduction Contest

Tips for the Energy Gadfly

Gadfly(a.k.a. "nag") – a person who arouses others from their complacency



Original Artwork courtesy of FEMP, Office of Energy Efficiency and Renewable Energy, U.S. Dept. of Energy

What to do Now?

Overview

Are you passionate about saving energy? Would you like an excuse to exercise your tendencies as a control freak? Then we are looking for you to be an energy gadfly! You will play a major role in reducing energy use and saving money for your center (by building). For example, if each Sandia employee could save an average of \$50/year:

- Electric bill savings could be \$350,000 to \$400,000!
- Air emissions reductions are >5,000 tons of CO₂, 40 tons SO₂, and 20 tons NO_x!

There are many resources for information, including people, websites, and booklets. This brochure briefly describes how you can help, gives some useful information, and provides contact information for support.

Take Action

- Nag training Sessions
- Website – See Energy Management web page on Sandia IRN
- Periodically look in SDN for information
- E-newsletter (Nag Rag)

Prizes

- ★ Quarterly, Annual Feasts for top winner
- ★ Powerstrips, bookmarks, etc. for quarterly winners (all categories)

What to do Now?

Pass on the Information!

- Hang up posters, stickers, etc. (facilities can provide)
- Send out department (or building) e-newsletters introducing yourself, the contest, and some initial tips
- Recruit others to help

7 Habits to encourage

(from Sandia Lab News 8/9/02)

When you leave each evening or weekend:

1. Turn off your desktop computer, monitor and printer – preferably via the power strip (Some desktop computers are left on a night; check with your CSU if you are unsure).
2. Look all around you for other glowing green, red, or orange lights.
3. Turn off all other office equipment and powered appliances you don't need.
4. Turn up the office thermostat a few degrees so the AC doesn't turn on.
5. Lower your blinds if you have them.
6. Turn off office lights, hallway lights, and bathroom lights in your region.
7. Leave a polite but sufficiently naggy note, or copy of this list, for coworkers who haven't taken these measures in their own offices.

Energy Savings Tips

Some ways to save \$\$ (from SLN 9/6/02)

- ✓ Shut off 150 W/100 SF of office equipment each night & weekend: **\$30/yr**
- ✓ Shut off 150 W/100 SF of office lighting each night & weekend: **\$30/yr**
- ✓ Take advantage of natural light (AND turn off office lights: **\$15/yr**)
- ✓ Close fume hood sash when not in use (where possible): **\$500/yr**
- ✓ Turn off the office copier every night and weekend: **\$25-40/yr**
- ✓ Turn off conference room lights every night and weekend: **\$30-115/yr**
- ✓ Turn off lights in large hallways (*who owns that light switch anyway?*): **\$200/yr**
- ✓ Turn off lights in large open office areas at night and weekend: **\$2,200/yr**

Office Equipment Power Use

HP LaserJet Printers

Model	Peak/Spike	Idle
4	850 W	24 W
4L	460 W	4-6 W

Konica Copiers (normal operation)

Model	Peak/Spike	Idle
7030	800-1200 W	75 W
7045	1400 W	120 W

Monitors & CPU's

19" CRT monitor	55 W
17" Flat panel	30 W
P3 CPU, 500 MHz	55W
P4 CPU, 1-6 GHz	55 W

Figure 1 Energy Reduction Results from Nagging

